

GOODYEAR ATOMIC CORPORATION

INTERNAL CORRESPONDENCE

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Subject: INDUSTRIAL HYGIENE TRAINING PLAN

The attached plan is recommended for Industrial Hygiene training at GAT.

On the first page is a brief overview of the Industrial Hygiene training. The remainder of the document provides additional details such as requirements, objectives, and course outlines for the individual programs. Also, training aids available from the Industrial Hygiene and Health Physics Department are listed.

If you should have questions or comments on this document, please direct them to X. S. Maroudis, extension 2174.



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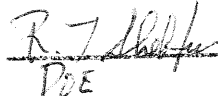
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Charles Crabtree ADC 4148

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MANAGEMENT TRAINING PLAN
GAT INDUSTRIAL HYGIENE TRAINING

	Industrial Hygiene Program Training	GAT SPP	Training Responsibility	Trainees	Training Frequency
1A.	Orientation for New Employees	-	Training Department	New employees	When hired
1B.	Orientation for Employees Changing Departments	-	Supervision	Transferring employees	As required
2.	Hazard Communication Standard	H-32	Supervision	All GAT employees	As required
3.	Hazard Communication Specific Hazard	H-32	Supervision	Specific chemical user	As required
4.	Confined Spaces	-	Supervision	Employees working confined spaces	Annual
5.	Respiratory Protection	H-42	Safety Department	Safety equipment tech, supervision, and users	Annual
6.	Heat Stress	H-26	Supervision	Employees in heat stress areas	Annual
7.	Cold Stress	H-44	Supervision	Employees exposed to cold	Annual
8.	Laser Protection	-	IHHP Department	Potentially exposed employees	Annual
9.	Video Display Terminals	-	Supervision	Employee using VDT's	As required
10.	Hearing Conservation	H-4	Supervision	Employee in high noise areas	Annual
11.	Asbestos Protection	H-29	Supervision	Potentially exposed employees	Annual

GAT INDUSTRIAL HYGIENE TRAINING PROGRAMS

1A. Title - IH Orientation; New Employees

Requirement - New employees beginning their careers with Goodyear Atomic Corporation should be informed of the Industrial Hygiene Programs in effect on plantsite.

Objective - To assure the new employees that their health in the workplace is a major concern of the Corporation.

Training Responsibility - Training Department

Trainees - New corporate employees

Course Outline

The new employee is given program summaries of:

- Hazard Communication
- Confined Spaces
- Respiratory Protection
- Heat/Cold Stress
- Hearing Conservation
- Asbestos Protection

The training is given as a lecture with overhead projector slides as training aids.

1B. Title - IH Orientation; Transferring Employees

Requirement - Employees in the Corporation transferring to other departments, classifications, or work areas shall be given Industrial Hygiene specific instruction as it relates to the new work location.

Objective - To assure that transferring employees are made aware of health protection measures associated with the health hazards of the new work location.

Training Responsibility - Supervision

Trainees - Transferring employees

Course Outline

Supervision will assure that the employee attends, as appropriate:

Hazard Communication,	IH Program 3	and/or
Confined Spaces,	IH Program 4	and/or
Respiratory Protection,	IH Program 5	and/or
Heat/Cold Stress,	IH Programs 6 & 7	and/or
Hearing Conservation,	IH Program 10	and/or
Asbestos Protection,	IH Program 11	

The format to be followed shall be the format specified in the particular IH Training Program.

2. Title - Hazard Communication Standard

Requirement - DOE Order 5480.4; OSHA 29 CFR 1910.1200; Training for Hazard Communication Program elements.

Objective - To meet OSHA requirements to inform employees of the elements of the standard and the responsibilities of the Corporation and employees.

Training Responsibility - Supervision (see SPP H-32)

Trainees - All corporate employees

Course Outline

Introduction

Employees are made aware that the standard establishes uniform requirements for manufacturing industries. The basic elements of the program are designed to inform the workers of chemical hazards so they can better participate in protective measures in the work place.

Video Presentation (IHHP Video Tapes)

- 1) "What's It All About", followed by an explanation of how GAT has complied with the basic elements of OSHA standard.
- 2) "MSDS: The Cornerstone of Chemical Safety", followed by a description of MSDS availability at GAT.

Question and Answer Session

A staff Industrial Hygienist will attend, if requested.

3. Title - Hazard Communication Standard - Specific Hazard

Requirement - DOE Order 5480.4; OSHA 29 CFR 1910.1200; Training for (1) methods and observations to detect presence or release of a hazardous chemical, (2) physical and health hazards of chemicals, and (3) employee protection and specific procedures implemented by employee.

Objective - To meet OSHA requirements regarding storage, usage, and handling of hazardous chemicals and assure employee awareness of the hazardous chemical properties.

Training Responsibility - Supervision (see SPP H-32)

Trainees - Employees who are chemical users

Course Outline

Depending on the chemicals used by the employees and/or the chemicals to which they are exposed in their work areas, additional training is required. Division trainers decide which employees will receive a particular lesson (or lessons). The specific lessons for chemical users are associated with IHHP video tapes having the following titles:

- "Introduction to Chemical Safety"
- "Corrosives"
- "Solvents"
- "Oxidizers"
- "Poisons"
- "Gases"
- "Explosives"
- "Carcinogens"

Introduction

Identification of the chemical(s), uses, and storage requirements and locations for the relevant job area.

Video Presentation (IHHP Video Tapes)

The appropriate video tape listed in the outline is shown and includes methods to detect release of a hazardous chemical, physical and health hazards, and protective measures.

Question and Answer Session

A staff Industrial Hygienist will attend, if requested.

4. Title - Confined Spaces

Requirement - DOE Order 5480.4; mandatory standard ANSI Z117.1-1977, "Safety Requirement for Working in Tanks and other Confined Spaces"

Objective - To inform employees who enter confined spaces of the requirements and procedures associated with confined space entry and of the hazards which may be involved.

Training Responsibility - Supervision

Trainees - Employees who are requested to enter or work in confined spaces.

Course Outline

Two methods are approved at GAT for confined space entry; (1) Maintenance Division Method MMP-2, "Confined Space Entry Procedure", and (2) Production Division Method CN 4.0-1, "Guidelines for Identifying and Entering Confined Spaces". A video tape entitled, "Two Breaths to" will be available for training. The respective divisions will train the appropriate employees using the video tape and methods as training aids. (IHHP Video Tape)

Introduction

Confined spaces can be unsafe because of presence of toxic or flammable vapors, O₂ deficiency or excess, physical hazards, possible reintroduction of hazard during occupancy, or isolation from help. The details given are those related to a specific job.

Discussion

The relevant method is explained section by section in a similar fashion. The video tape, which is optional, covers the ANSI standard.

Question and Answer Session

5. Title - Respirator Protection

Requirement - DOE Order 5480.4; mandatory standard ANSI Z88.2-1980, "Practices for Respiratory Protection".

Objective - To provide information and guidance on the selection and use of respirators that will safeguard the employee's health and life.

Training Responsibility - Safety Department (see SPP H-42)

Trainees - Employees who are required to use respirators.

Course Outline

Supervision determines the employees who require protection and schedules them for training and fitting at the GAT respiratory facility. For the initial training, a GAT produced video tape "Respiratory Protection" is shown to the employee prior to the fitting. For the continuing training, the employee is shown a slide program entitled "OSHA Requirements for Respirator Training for Hourly Employees".

Introduction

The employee is given a brief preview of the contents of video tape or the slide program.

Discussion

The video tape or slide program is shown, which provides general training on, for example, the use and care of respirators, how to properly don it, respirator selection and limitations, and other types of respiratory protection. After the program, the employee is fitted in the respirator fit-test booth.

Question and Answer Session

6. Title - Heat Stress

Requirement - DOE Order 5480.4; mandatory standard "TLV's Threshold Limit Values.....", Heat Stress, current edition (ACGIH)

Objective - To provide information and guidance to employees of work practices and procedures when working in a heat stress area.

Training Responsibility - Supervision (see SPP-H26)

Trainees - Employees exposed to heat stress conditions.

Course Outline

Supervision determines the employees who are required to work in hot environments and provides for their training. Employees except for TRT Guards, will view one of the two video tapes; either "Living with Heat", or "Occupational Heat Stress". For the TRT Guards, a video tape entitled "Heat Stress for TRT GUards" is available. In general, the training includes symptoms of heat exhaustion and stroke and employee actions to negate these effects. (IHHP Video Tapes)

Introduction

For the particular work group, work requirements and the anticipated heat stress conditions are described.

Discussion

The appropriate video tape is presented followed by a review of relevant protective procedures and rules to be observed by the employee during the course of the job assigned in the heat stress environment.

Question and Answer Session

7. Title - Cold Stress

Requirement - DOE Order 5480.4; mandatory standard "TLV's, Threshold Limit Values....", Cold Stress, current edition (ACGIH)

Objective - To provide information and guidance to employees of the effects of cold stress, describe cold injury, and emphasize protective measures.

Training Responsibility - Supervision (see H-44)

Trainees - Employees exposed to cold environments.

Course Outline

Supervision determines the employees who are required to work in cold environments and provides for their training. In general, the training includes hazards, symptoms, and precautions for cold stress. A video tape, entitled "Surviving the Cold", is available. (IHHP Video Tape)

Introduction

The effects of cold environment - cold injury, hypothermia, and wind-chill-are described and protection of hands, feet and head from cold injury is emphasized.

Discussion

For the particular work group, job requirements and anticipated cold environments are presented preceeding the showing of the video tape. Then follows a review of protective measures and rules to be observed during the course of the job assignment in the cold stress environment. The video tape is shown.

Question and Answer Session

8. Title - Laser Protection

Requirement - DOE Order 5480.4; mandatory standard "TLV's, Threshold Limit Values....", Lasers, current edition (ACGIH) and ANSI Z136.1-1980, "Safe Use of Lasers".

Objective - To provide reasonable and adequate guidance for the safe use of lasers and laser systems and assure employees are appraised of the exposure hazards, control measures, and standards.

Training Responsibility - IHHP Department

Trainees - Employees potentially exposed to lasers.

Course Outline

A slide program entitled "Laser Safety" is the basis of the training session. (IHHP Slides)

Introduction

The history, location, classification, and use of the plantsite lasers are reviewed.

Discussion

The slide program is presented which details potential hazards associated with the use of lasers and means of protecting the user and others from possible harm.

Question and Answer Session

9. Title - Video Display Terminals

Requirement - Training in response to ergonomic type stresses promoted by work space design.

Objective - To show VDT operators how to check their working conditions to reduce operator stress and make adjustments by working with supervision.

Training Responsibility - Supervision

Trainees - Employees using VDT's and their supervisors, as appropriate.

Course Outline

During the lesson introduction, the VDT Operators give opinions, fears, and stresses of their job areas. This input is blended into the training presentation. A video tape entitled, "VDT - The Human Factor" is available. (IHHP Video Tape)

Introduction

The trainees are encouraged to talk about the "problems" or "stresses" they perceive at the work station.

Discussion

The "problems" or "stresses" are referenced when the following elements are presented: (1) ergonomics, (2) work station layout, (3) work area environment, (4) lighting and, (5) eye care. The video tape is shown.

Question and Answer Session

10. Title - Hearing Conservation

Requirement - DOE Order 5480.4; mandatory standard "TLV's, Threshold Limit Values....", Noise, current edition (ACGIH) and OSHA 29 CFR 1910.95.

Objective - To inform employees of potential hearing damage when exposed to excessive noise levels and train employees in preventive and protective measures.

Training Responsibility - Supervision (see SPP H-4)

Trainees - Employees potentially exposed to noise at or above an 8-hour time-weighted average of 85 decibels.

Course Outline

The trainer has available four films, "National Hearing Quiz", "Listen Up with Norm Crosby", "Noise? You're in Control", and "It's Up to You", plus two video tapes, "Sound Advise", and "Hearing Conservation" to generate the most suitable lesson for the employees in the job classification being trained. (IHHP Films and Video Tapes)

Introduction

For the particular work group, work requirements and the anticipated noise level conditions are described.

Discussion

The employees are informed of (1) the effects of noise on hearing, (2) the purpose of hearing protectors, (3) the advantages/disadvantages and attenuation of the various types, (4) their selection, fitting, use and care, and (5) audio metric testing with an explanation of GAT procedures. The training films and video tapes augment the instruction.

Question and Answer Session

11. Title - Asbestos Protection

Requirement - DOE Order 5480.4; mandatory standard "TLV's, Threshold Limit Values....", Asbestos, current edition (ACGIH) and OSHA 19 CRF 1910.001.

Objective - To alert the employees of the hazards of asbestos, present the highlights of the OSHA standard, and review the GAT procedures established for their protection.

Training Responsibility - Supervision (see SPP H-29)

Trainees - Potentially exposed employees.

Course Outline

Two methods are approved at GAT for asbestos control, (1) Maintenance Division Method MM1-16, "Maintenance Division Reporting and Handling of Asbestos Jobs", and (2) Production Division Operating Method, RD 5.6.3, "Guidelines for Handling Asbestos." A slide program entitled, "Breathe Easy" and three video tapes, "Asbestos Alert", "Taking Control", and "Asbestos Handling and Disposal", are available for training. The respective divisions will train the appropriate employees using the methods, slide program and video tapes as training aids. (IHHP Slides and Video Tapes).

Introduction

The trainees are informed of the location of asbestos in their work areas, and of the meaning of friable asbestos.

Discussion

The hazards, relevant symptoms, and precautions concerning asbestos use or exposure are presented. When appropriate, the methods are reviewed by the respective divisions. The basis of the training is the slide program and video tapes.

Question and Answer Session